

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| S1    | 2    | ((("5944824") or ("6347312"))).PN.  | US-PGPUB;<br>USPAT  | OR               | OFF     | 2005/07/08 10:48 |
| S2    | 1    | ("6131120").PN.   | US-PGPUB;<br>USPAT  | OR               | OFF     | 2005/07/08 10:49 |
| S3    | 29   | ((("5077666") or ("5455953") or ("5530861") or ("5581691") or ("5678041") or ("5692125") or ("5708780") or ("5764890") or ("5991810") or ("5999911") or ("6073109") or ("6098056") or ("6131120") or ("6138104") or ("6141778") or ("6151531") or ("6158010") or ("6182142") or ("6208986") or ("6212558") or ("6256739") or ("6266420") or ("6338097") or ("6366913") or ("6434531") or ("6442567") or ("6539379") or ("20020032684") or ("20030145074"))).PN. | US-PGPUB;<br>USPAT  | OR               | OFF     | 2005/07/08 10:58 |
| S4    | 6    | S3 and certificate  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/07/08 10:59 |
| S5    | 111  | real\$time with certificate   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/07/08 11:00 |
| S6    | 1    | real\$time with certificate same grant\$3 with (access authenticat\$3 authoriz\$6)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/07/08 11:01 |
| S7    | 26   | real\$time with certificate and grant\$3 with (access authenticat\$3 authoriz\$6)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/07/08 11:01 |
| S8    | 25   | real\$time with certificate and grant\$3 with (access authenticat\$3 authoriz\$6) not S6  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/07/08 11:01 |

## EAST Search History

|     |     |  |  |    |     |                  |
|-----|-----|--|--|----|-----|------------------|
| S9  | 5   | real\$time with certificate and grant\$3 with (access authenticat\$3 authoriz\$6) not S6 and (@ad<"20010420" @prad<"20010420") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/07/08 11:05 |
| S10 | 42  | real\$time with certificate and (@ad<"20010420" @prad<"20010420")  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/07/08 11:05 |
| S11 | 6   | real\$time with status with certificate and (@ad<"20010420" @prad<"20010420")  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/07/08 11:13 |
| S12 | 636 | sinn.in.   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/07/08 11:09 |
| S13 | 134 | sinn-r\$.in.   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/07/08 11:09 |
| S14 | 2   | sinn-r\$.in. and oblix.as.   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/07/08 11:09 |
| S15 | 0   | ("6842863").URPN.  | USPAT  | OR | OFF | 2005/07/08 11:13 |
| S16 | 7   | real\$time with status same certificate and (@ad<"20010420" @prad<"20010420")  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/07/08 11:14 |
| S17 | 1   | real\$time with status same certificate and (@ad<"20010420" @prad<"20010420") not S11  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/07/08 11:14 |

## EAST Search History

|     |     |   |   |    |     |                  |
|-----|-----|---|---|----|-----|------------------|
| S18 | 414 | status with certificate and<br>(@ad<"20010420"<br>@prad<"20010420")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/07/08 11:14 |
| S19 | 34  | status with certificate same valid\$5<br>with time and (@ad<"20010420"<br>@prad<"20010420")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/07/08 11:15 |
| S20 | 35  | status with certificate same valid\$5<br>with (interval time) and<br>(@ad<"20010420"<br>@prad<"20010420")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/07/08 11:22 |
| S21 | 1   | real\$time with status with<br>certificate same valid\$5 with<br>(interval time) and<br>(@ad<"20010420"<br>@prad<"20010420")  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/07/08 11:22 |
| S22 | 1   | real\$time same status with<br>certificate same valid\$5 with<br>(interval time) and<br>(@ad<"20010420"<br>@prad<"20010420")  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/07/08 11:22 |
| S23 | 1   | real\$time with status same<br>certificate same valid\$5 with<br>(interval time) and<br>(@ad<"20010420"<br>@prad<"20010420")  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/07/08 11:22 |
| S24 | 1   | real\$time with status and certificate<br>same valid\$5 with (interval time)<br>and (@ad<"20010420"<br>@prad<"20010420")  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/07/08 11:22 |
| S25 | 9   | (US-20020099822-\$ or<br>US-20020053023-\$ or<br>US-20010011255-\$ or<br>US-20010002485-\$).did. or<br>(US-6745327-\$ or US-6842863-\$ or<br>US-6216231-\$ or US-6044462-\$ or<br>US-5903882-\$).did. | US-PGPUB;<br>USPAT  | OR | OFF | 2005/07/08 14:24 |
| S26 | 7   | S25 and certificate with expir\$5   | US-PGPUB;<br>USPAT  | OR | OFF | 2005/07/08 15:16 |

## EAST Search History

|     |       |  |                    |    |    |                  |
|-----|-------|--|--------------------|----|----|------------------|
| S27 | 15    | error with message with invalid with certificate   | US-PGPUB;<br>USPAT | OR | ON | 2005/07/08 15:17 |
| S28 | 3     | error with message with invalid with certificate and (@ad<"20010420" @prad<"20010420")             | US-PGPUB;<br>USPAT | OR | ON | 2005/07/08 15:18 |
| S29 | 6     | error with message same invalid with certificate and (@ad<"20010420" @prad<"20010420")             | US-PGPUB;<br>USPAT | OR | ON | 2005/07/08 15:18 |
| S30 | 3     | error with message same invalid with certificate and (@ad<"20010420" @prad<"20010420") not S28     | US-PGPUB;<br>USPAT | OR | ON | 2005/07/08 15:19 |
| S31 | 41505 | error with message same2 invalid with certificate and (@ad<"20010420" @prad<"20010420") not S28    | US-PGPUB;<br>USPAT | OR | ON | 2005/07/08 15:19 |
| S32 | 45    | error with message and invalid with certificate and (@ad<"20010420" @prad<"20010420") not S28      | US-PGPUB;<br>USPAT | OR | ON | 2005/07/08 15:19 |
| S33 | 42    | error with message and invalid with certificate and (@ad<"20010420" @prad<"20010420") not S29      | US-PGPUB;<br>USPAT | OR | ON | 2005/07/08 15:21 |
| S34 | 0     | error with message with expir with certificate and (@ad<"20010420" @prad<"20010420") not S29       | US-PGPUB;<br>USPAT | OR | ON | 2005/07/08 15:21 |
| S35 | 0     | error with message with expir with certificate and (@ad<"20010420" @prad<"20010420") not S29       | US-PGPUB;<br>USPAT | OR | ON | 2005/07/08 15:22 |
| S36 | 5     | error with message with expir\$5 with certificate and (@ad<"20010420" @prad<"20010420") not S29    | US-PGPUB;<br>USPAT | OR | ON | 2005/07/08 15:22 |
| S37 | 0     | error with message with unavailable with certificate and (@ad<"20010420" @prad<"20010420") not S29 | US-PGPUB;<br>USPAT | OR | ON | 2005/07/08 15:23 |
| S38 | 0     | error with message same unavailable with certificate and (@ad<"20010420" @prad<"20010420") not S29 | US-PGPUB;<br>USPAT | OR | ON | 2005/07/08 15:23 |
| S39 | 8     | error with message same expir\$5 with certificate and (@ad<"20010420" @prad<"20010420") not S29    | US-PGPUB;<br>USPAT | OR | ON | 2005/07/08 15:23 |

## EAST Search History

|     |    |   |                 |    |     |                  |
|-----|----|---|-----------------|----|-----|------------------|
| S40 | 6  | error with message same expir\$5 with certificate and (@ad<"20010420" @prad<"20010420") not S36           | US-PGPUB; USPAT | OR | ON  | 2005/07/08 15:26 |
| S41 | 6  | error with message same invalid\$5 with certificate and (@ad<"20010420" @prad<"20010420") not S36         | US-PGPUB; USPAT | OR | ON  | 2005/07/08 15:26 |
| S42 | 6  | error with message same invalid\$5 with certificate and (@ad<"20010420" @prad<"20010420")                 | US-PGPUB; USPAT | OR | ON  | 2005/07/08 15:26 |
| S43 | 0  | error with message same invalid\$5 with certificate and (@ad<"20010420" @prad<"20010420") not S29         | US-PGPUB; USPAT | OR | ON  | 2005/07/08 15:27 |
| S44 | 58 | error with message and invalid\$5 with certificate and (@ad<"20010420" @prad<"20010420") not S29          | US-PGPUB; USPAT | OR | ON  | 2005/07/08 15:27 |
| S45 | 19 | error with message and invalid\$5 with certificate and (@ad<"20010420" @prad<"20010420") not S32          | US-PGPUB; USPAT | OR | ON  | 2005/07/08 15:28 |
| S46 | 19 | S45   | US-PGPUB; USPAT | OR | ON  | 2005/07/08 15:27 |
| S47 | 48 | message with invalid\$5 with certificate and (@ad<"20010420" @prad<"20010420")                            | US-PGPUB; USPAT | OR | ON  | 2005/07/08 15:29 |
| S48 | 93 | message with (expir\$5 invalid\$5) with certificate and (@ad<"20010420" @prad<"20010420")                 | US-PGPUB; USPAT | OR | ON  | 2005/07/08 15:29 |
| S49 | 66 | message with (expir\$5 invalid\$5) with certificate and (@ad<"20010420" @prad<"20010420") not S32         | US-PGPUB; USPAT | OR | ON  | 2005/07/08 15:30 |
| S50 | 66 | message with (expir\$5 invalid\$5) with certificate and (@ad<"20010420" @prad<"20010420") not S32 not S36 | US-PGPUB; USPAT | OR | ON  | 2005/07/08 15:30 |
| S51 | 16 | real\$time with (status check) with certificate   | US-PGPUB; USPAT | OR | ON  | 2006/01/19 11:17 |
| S52 | 3  | open near certificate near status near protocol   | US-PGPUB; USPAT | OR | ON  | 2006/01/19 11:26 |
| S53 | 1  | "6131120".pn.   | US-PGPUB; USPAT | OR | OFF | 2006/01/19 11:45 |

## EAST Search History

|     |    |   |                    |    |     |                  |
|-----|----|---|--------------------|----|-----|------------------|
| S54 | 35 | (("5301320") or ("5659616") or ("5734837") or ("5745574") or ("5796841") or ("5822454") or ("5831975") or ("5867665") or ("5867824") or ("5884284") or ("5907837") or ("5940834") or ("5960422") or ("5961593") or ("5966702") or ("5987457") or ("5987471") or ("5991768") or ("5991807") or ("6012098") or ("6051306") or ("6061726") or ("6061740") or ("6073242") or ("6105063") or ("6105066") or ("6112181") or ("6154776") or ("6173311") or ("6195689") or ("6195696") or ("6219667") or ("6223291") or ("20010007133") or ("6263332")).PN. | US-PGPUB;<br>USPAT | OR | OFF | 2006/08/16 16:38 |
| S55 | 35 | (("5301320") or ("5659616") or ("5734837") or ("5745574") or ("5796841") or ("5822454") or ("5831975") or ("5867665") or ("5867824") or ("5884284") or ("5907837") or ("5940834") or ("5960422") or ("5961593") or ("5966702") or ("5987457") or ("5987471") or ("5991768") or ("5991807") or ("6012098") or ("6041306") or ("6061726") or ("6061740") or ("6073242") or ("6105063") or ("6105066") or ("6112181") or ("6154776") or ("6173311") or ("6195689") or ("6195696") or ("6219667") or ("6223291") or ("20010007133") or ("6263332")).PN. | US-PGPUB;<br>USPAT | OR | OFF | 2006/08/16 16:43 |

## EAST Search History

|     |    |  |                    |    |     |                  |
|-----|----|--|--------------------|----|-----|------------------|
| S56 | 35 | ((("6263363") or ("6275916") or ("6292833") or ("20010023440") or ("6295061") or ("20010027439") or ("6304949") or ("6317783") or ("20010049770") or ("6330569") or ("6336124") or ("6336214") or ("6339826") or ("6367013") or ("6389589") or ("20020062435") or ("6397232") or ("20020065701") or ("6408336") or ("20020078307") or ("20020091836") or ("20020103819") or ("20020108003") or ("6438690") or ("20020129024") or ("20020129135") or ("20020129177") or ("20020133516") or ("6457066") or ("20020138543") or ("20020138572") or ("20020138577") or ("20020138763") or ("20020143865") or ("20020143943")).PN. | US-PGPUB;<br>USPAT | OR | OFF | 2006/08/16 16:47 |
| S57 | 35 | ((("20020147746") or ("20020147801") or ("20020147813") or ("20020152244") or ("20020152254") or ("20020156879") or ("20020174238") or ("20020184444") or ("6493702") or ("6493731") or ("6507857") or ("6519571") or ("6519767") or ("6523027") or ("6539021") or ("6542515") or ("20030065921") or ("6564370") or ("6571216") or ("6571279") or ("6574675") or ("6587856") or ("6591260") or ("6606644") or ("6632251") or ("6643661") or ("6671695") or ("20040002903") or ("6675261") or ("6678733") or ("20040064356") or ("6728685") or ("6748374") or ("6748569") or ("6751797")).PN.                                 | US-PGPUB;<br>USPAT | OR | OFF | 2006/08/16 16:55 |
| S58 | 14 | ((("6754702") or ("20040153509") or ("6775782") or ("6782379") or ("6785726") or ("6791949") or ("6816871") or ("6851054") or ("6854016") or ("6886170") or ("6901588") or ("6959415") or ("6968503") or ("6970862")).PN.  | US-PGPUB;<br>USPAT | OR | OFF | 2006/08/16 16:56 |
| S59 | 3  | ("20020053023" "6044462".pn.)<br>and (period\$6 interval)  | US-PGPUB;<br>USPAT | OR | ON  | 2006/08/17 08:27 |

## EAST Search History

|     |     |   |                    |    |     |                  |
|-----|-----|---|--------------------|----|-----|------------------|
| S60 | 1   | "6957348".pn.   | US-PGPUB;<br>USPAT | OR | ON  | 2006/08/17 08:27 |
| S61 | 12  | ((("5901287") or ("6104705") or ("6105006") or ("6356996") or ("6487600") or ("20030105654") or ("6609198") or ("6859823") or ("6986138") or ("20060195575") or ("7107526") or ("7124354")).PN. | US-PGPUB;<br>USPAT | OR | OFF | 2007/06/19 10:05 |
| S62 | 210 | (determin\$5 decid\$3) with check\$3 with (status valid\$5) with certificate  | US-PGPUB;<br>USPAT | OR | ON  | 2007/06/19 10:08 |
| S63 | 88  | (determin\$5 decid\$3) with check\$3 with (status valid\$5) with certificate and (@ad<"20010420" @prad<"20010420")  | US-PGPUB;<br>USPAT | OR | ON  | 2007/06/19 10:09 |
| S64 | 4   | (determin\$5 decid\$3) with check\$3 with (status valid\$5) with certificate and (OCSP on\$line near certificate near status near protocol) and (@ad<"20010420" @prad<"20010420")               | US-PGPUB;<br>USPAT | OR | ON  | 2007/06/19 10:19 |
| S65 | 0   | real\$time with (OCSP on\$line near certificate near status near protocol) and (@ad<"20010420" @prad<"20010420")  | US-PGPUB;<br>USPAT | OR | ON  | 2007/06/19 10:19 |
| S66 | 0   | real\$time same (OCSP on\$line near certificate near status near protocol) and (@ad<"20010420" @prad<"20010420")  | US-PGPUB;<br>USPAT | OR | ON  | 2007/06/19 10:19 |
| S67 | 7   | real\$time and (OCSP on\$line near certificate near status near protocol) and (@ad<"20010420" @prad<"20010420")   | US-PGPUB;<br>USPAT | OR | ON  | 2007/06/19 10:22 |
| S68 | 49  | (OCSP on\$line near certificate near status near protocol) and (@ad<"20010420" @prad<"20010420")  | US-PGPUB;<br>USPAT | OR | ON  | 2007/06/19 10:22 |
| S69 | 0   | ("7058798").URPN.   | USPAT              | OR | OFF | 2007/06/19 10:34 |



## EAST Search History

|     |    |   |                              |    |     |                  |
|-----|----|---|------------------------------|----|-----|------------------|
| S70 | 40 | ("20020144149"   "20030028585"  <br>"20030041141"   "20030055894"  <br>"20030055898"   "20030056093"  <br>"20040054899"   "5173939"  <br>"5220604"   "5224163"   "5261002"<br>  "5283830"   "5315657"  <br>"5586260"   "5764772"   "5768519"<br>  "5901227"   "5991807"  <br>"6079020"   "6088805"   "6138235"<br>  "6158011"   "6212634"  <br>"6216231"   "6223291"   "6230266"<br>  "6256741"   "6263434"  <br>"6275941"   "6301658"   "6308274"<br>  "6366913"   "6370648"  <br>"6397329"   "6405313"   "6438690"<br>  "6496858"   "6678700"  <br>"6732277"   "6883100").PN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2007/06/19 10:35 |
| S71 | 0  | "09998914".an.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2007/06/19 10:35 |
| S72 | 0  | "09/998914".an.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2007/06/19 10:35 |
| S73 | 0  | "09/998,914".an.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2007/06/19 10:36 |
| S74 | 1  | "20020166049".pn. and storage adj<br>medium   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2007/06/19 15:47 |
| S80 | 0  | ("6842863" "7058798").pn. and<br>display\$3 with certificate  | US-PGPUB;<br>USPAT           | OR | OFF | 2007/06/19 18:13 |